	Application No.	Applicant(s)	
Notice of Allowability	09/289,600	YAMAGUCHI ET AL.	
	Examiner	Art Unit	
	Jean E Lesperance	2629	
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The MAILING DATE of this communication All claims being allowable, PROSECUTION ON THE MERIT herewith (or previously mailed), a Notice of Allowance (PTO NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATE of the Office or upon petition by the applicant. See 37 CFR	IS IS (OR REMAINS) CLOSED IL-85) or other appropriate comm NT RIGHTS. This application is	in this application. If not included nunication will be mailed in due course. T	Γ ΗΙS nitiative
1. This communication is responsive to the amendment	filed February 17, 2006.		
2. A The allowed claim(s) is/are 1-29, 31, and 35-38 renu			
3. \square The drawings filed on <u>12 April 1999</u> are accepted by	the Examiner.		
4. Acknowledgment is made of a claim for foreign priori a) All b) Some* c) None of the:		or (f).	
 Certified copies of the priority documents 	have been received.		
Certified copies of the priority documents	have been received in Applicati	on No	
Copies of the certified copies of the prior		d in this national stage application from	the
International Bureau (PCT Rule 17.2(a	a)).		
* Certified copies not received:			
5. Acknowledgment is made of a claim for domestic prior		• • • • • • • • • • • • • • • • • • • •	
(a) The translation of the foreign language provision			
6. Acknowledgment is made of a claim for domestic prior	rity under 35 U.S.C. §§ 120 and	or 121.	
Applicant has THREE MONTHS FROM THE "MAILING DAT below. Failure to timely comply will result in ABANDONMEN	FE" of this communication to file	a reply complying with the requirements REE-MONTH PERIOD IS NOT EXTEND	noted ABLE.
7. A SUBSTITUTE OATH OR DECLARATION must be INFORMAL PATENT APPLICATION (PTO-152) which gives	submitted. Note the attached Exreason(s) why the oath or declar	AMINER'S AMENDMENT or NOTICE Caration is deficient.)F
 8. CORRECTED DRAWINGS must be submitted. (a) including changes required by the Notice of Drafeth of o	wing correction filed, whi	ch has been approved by the Examiner.	
Identifying indicia such as the application number (see 37 of each sheet. The drawings should be filed as a separate p	CFR 1.84(c)) should be written on to paper with a transmittal letter add	he drawings in the top margin (not the bac essed to the Official Draftsperson.	ck)
9. DEPOSIT OF and/or INFORMATION about the datached Examiner's comment regarding REQUIREMENT F	deposit of BIOLOGICAL MAT OR THE DEPOSIT OF BIOLOG	ERIAL must be submitted. Note the ICAL MATERIAL.	
Attachment(s)			
 Notice of References Cited (PTO-892) Notice of Draftperson's Patent Drawing Review (PTO-945) Information Disclosure Statements (PTO-1449), Paper 1 Examiner's Comment Regarding Requirement for Depos of Biological Material 	48) 4⊠ Intervie No 6⊠ Examin sit 8⊠ Examin 9□ Other	of Informal Patent Application (PTO-152) w Summary (PTO-413), Paper No er's Amendment/Contiment er's Statement of Reasons for Allowance RICHARD HJERPE IPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600	

DETAILED ACTION

1. The amendment filed February 17, 2006 is entered and claims 1-29, 31, and 35-38 are pending.

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Susan Perng Pan (Reg. No. 41,239) on April 20, 2006.

Please amend independent claims 1, 13, and 38 as follows:

1. (Currently amended): A monochromatic image display system comprising:

a display device comprising a plurality of picture elements, each picture element comprising a series of spatially adjacent cells, <u>arranged in a linear manner</u>, each cell emitting light in a same color and expressing tones in three or more levels; and

a cell signal generating means which generates, based on a monochromatic image signal indicating an output luminance of each picture element of a monochromatic image, a cell signal for each spatially adjacent cell of a respective picture element of said display device, said cell signal determining an output tone level of the cell, so that an average of the output luminance of all the cells within each

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respective picture element correspond to an output luminance of the respective picture element,

wherein each respective picture element of said display device corresponds to a picture element of said monochromatic image, and

wherein the output luminance of the plurality of picture elements of said display device express said monochromatic image.

13. (Currently amended) A monochromatic image display system comprising:

a display device comprising a plurality of picture elements, each picture element comprising a series of spatially adjacent cells, <u>arranged in a linear manner</u>, each cell emitting light in a same color and expressing tones in three or more levels, and at least two of said series of cells having maximum output levels different from each other; and

a drive means which drives the cells of a respective picture element so that the output level difference per one level of said three or more levels differs from each other between said at least two of said series of cells, wherein the plurality of picture elements express a monochromatic image.

38. (Currently amended) A monochromatic image display system comprising:

a display device comprising a plurality of picture elements, each picture element comprising a series of spatially adjacent cells, <u>arranged in a linear manner</u>, each cell emitting light in a same color and expressing tones in three or more levels; and

a cell signal generating means which generates, based on a monochromatic image signal indicating an output luminance of each picture element of a monochromatic image, a cell signal for each spatially adjacent cell of a respective

picture element of said display device, said cell signal determining an output tone level of the cell, so that an sum of the output luminance of all the cells within each respective picture element correspond to an output luminance of the respective picture element,

wherein each respective picture element of said display device corresponds to a picture element of said monochromatic image, and

wherein the output luminance of the plurality of picture elements of said display device express said monochromatic image.

Allowable Subject Matter

- 3. Claims 1-29, 31, and 35-38 are allowed.
- 4. The following is an examiner's statement of reasons for allowance: the claimed invention is directed to a monochromatic image display system.

Independent claims 1 and 38 identify a uniquely distinct feature "a display device comprising a plurality of picture elements, each picture element comprising a series of spatially adjacent cells, arranged in a linear manner, each cell emitting light in a same color and expressing tones in three or more levels".

Independent claim 13 identifies a uniquely distinct feature "a display device comprising a plurality of picture elements, each picture element comprising a series of spatially adjacent cells, arranged in a linear manner, each cell emitting light in a same color and expressing tones in three or more levels, and at least two of said series of cells having maximum output levels different from each other".

The closest arts, Farwell et al. and Hasegawa as discussed in previous in the Office Action, either singularly or in combination fail to anticipate or render the above underlined limitations obvious.

5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jean Lesperance whose telephone number is (571) 272-7692. The examiner can normally be reached on from Monday to Friday between 10:OOAM and 6:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Hjerpe, can be reached on (571) 272-7691.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(571) 273-8300 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the technology Center 2600 Customer Service Office

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whose telephone number is (703) 306-0377.

Jean Lesperance

Date 4/20/2006

SUPERVISORY PATENT EXAMINER

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